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Maggiolino

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(54) **CIRCUITRY FOR A HIGH VOLTAGE
 LINEAR CURRENT SENSE IC**

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(58) Field of Search **327/172, 175**

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(57) **ABSTRACT**

A high voltage linear current sense integrated circuit
 includes a differential amplifier circuit that can amplify a
 differential signal in the hundreds of millivolts near the
 power supply. In addition, a constant current using opposing
 minus temperature coefficient MOSFETs is provided.
 Accordingly, an op-amp circuit is provided with an input
 offset voltage which is constant and insensitive to tempera-
 ture changes. A circuit for generating a current reference on
 the high side of the current sense IC also is provided.

4 Claims, 11 Drawing Sheets

